

# Model Number PERFORMANCE SPECIFICATION DOC NO PS3133D4T Accelerometer, Triaxial, IEPE REV E, ECN 13002, 10/05/16

grams

mm

m/s2



• ULTRA MINIATURE SIZE

**ENGLISH** 

- IDEAL LOW FREQUENCY RESPONSE
- LOW BASE STRAIN SENSITIVITY

oz

• TEDS FEATURE

PHYSICAL	
Weight	
Mounting	
Integral Cable	Length
Connector	Type
Housing	Material
	Isolation
Sensing Element	Material

Mode

	_
0.03	
Adhesive	
3	
4-pin	
Titanium	
Case Ground	
Quartz	
Shear	

0.8
Adhesive
914
4-pin
Titanium
Case Ground
Quartz
Shear

#### PERFORMANCE Sensitivity [1], [2], ± 25%

Acceleration Range
Frequency Range, ±5%
Frequency Range, ±10%
Linearity [4]
Resonance Frequency
Transverse Sensitivity
Output Impedance
Noise floor, Max.

0.7	mv/g
5,000	Gpeak
0.7 to 6000	Hz
0.7 to 10000	Hz
± 1	% F.S.
>27	kHz
6	%
100	Ω
0.30	Grme

0.071	mV/m/s²
49050	m/s² peak
0.7 to 6000	Hz
0.7 to 10000	Hz
± 1	% F.S.
>27	kHz
6	%
100	Ω
2.94	m/s² rms

SI

## ENVIRONMENTAL

Iviaximum Snock
Maximum Vibration
Operating Temperature
Seal
Magnetic Sensitivity at 100 Gauss
Base Strain Sensitivity

7,000	Gpeak
6,000	Gpeak
-67 to +320	°F
Hermetic	
0.0002	g/Gauss
0.001	g/με

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58860	m/s <sup>2</sup>
-55 to 160	°C
Hermetic	
0.002	m/s²/Gauss
0.01	m/s²/με

68670

### ELECTRICAL

Compliance Voltage

g-	
Current Range [4]	
Bias Voltage	
Discharge Time Constant	
Output Impedance	
TEDS Feature [5]	

+18 to +30	VDC
2 to 20	mA
+7 to +9	VDC
0.5 to 2.5	seconds
100	Ω
IEEE 1451.4	

	_
+18 to +30	VDC
2 to 20	mA
+7 to +9	VDC
0.5 to 2.5	seconds
100	Ω
IEEE 1451.4	

#### This family also includes:

Model	Sensitivity (mV/g)	Range (Gpeak)	Resolution (Grms)	Oper. Temp(°F)	TC
3133D1T	10	500	0.02	-67 to 320	1.1 to 1.7
3133D2T	2	2,500	0.15	-67 to 320	0.5 to 2.5
3133D3T	5	1,000	0.06	-67 to 320	1.1 to 1.7
3133D5T	0.25	20,000	0.50	-67 to 320	0.5 to 4

Refer to the performance specifications of the products in this family for detailed description

#### Supplied Accessories:

- 1) Model 6298 small petro wax
- 2) Model 6741 removal tool
- 3) Accredited calibration certificate (ISO 17025)

#### Notes

- [1] Measured at 100 Hz, 10 Grms
- [2] Actual sensitivity is given on a calibration certificate
- [3] Measured using zero-based straight line method, % of F.S. or any lesser range.
- [4] Do not apply power to this device without current limiting, 20mA max, to do so will destroy the integral IC amplifier
- [5] TEDS operational temperature: -40° F to +185° F [-40° C to +85° C]



